CLAIMS



- 1. A method for providing a cured coating on a substrate from a composition comprising a combination of at least one epoxy compound, at least one polyol and at least one photoinitiator wherein said method comprises:
- (a) exposing at least one component of the composition to a source of radiation; and
 - (b) applying the exposed composition onto a substrate thereby forming a coating upon the substrate.

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- 2. The method according to Claim 1 wherein the substrate comprising at least one member selected from the group consisting of metal, wood, concrete and cement.
- 3. The method according to Claim 1 wherein the substrate comprises metal and the coating overlies a joint between at least two metal substrates.
 - 4. The method according to Claim 3 wherein the joint is formed by welding together at least two automotive body components.
- The method according to Claim 1 further comprising (c) heating the coated substrate to a temperature sufficient to improve adhesion of the composition to the substrate.

The method according to Claim 1 wherein the epoxy compound comprises a cycloaliphatic epoxy compound.

7. The method according to Claim 1 wherein the polyol comprises a polyether polyol, a polyester polyol or mixture thereof.

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- 8. The composition according to Claim 1 wherein the photoinitiator comprises a UV photoinitiator.
- 9. The method according to Claim 8 wherein the radiation comprises ultraviolet radiation.
 - 10. The method according to Claim 1 wherein the photoinitiator comprises an onium salt.
- 10 11. A curable composition comprising a combination of:
 - (a) at least one epoxy compound;
 - (b) at least one resin;
 - (c) at least one polyol; and
- (d) at least one photoinitiator which is present in amount sufficient to provide cross-linking of at least a portion of the composition upon exposure to radiation.
 - 12. The composition according to Claim 11 wherein the epoxy compound comprises a cycloaliphatic compound.
- 20 13. The composition according to Claim 11 wherein the polyol comprises a polyester polyol, polyether polyol or mixture thereof.
 - 14. The composition according to Claim 11 wherein the photoinitiator comprises a UV photoinitiator.
 - 15. The composition according to Claim 14 wherein the photoinitiator comprises an onium salt.
- The composition according to Claim 11 further comprising (d) a thickening agent.

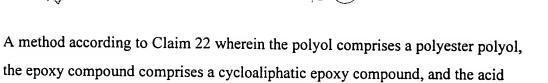
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- 17. The composition according to Claim 16 wherein the thickening agent comprises silica.
- 18. The composition according to Claim 16 wherein the thickening agent is present in amount effective to provide a thixotropic composition.
 - 19. The composition according to Claim 16 further comprising (e) at least one monomeric material.
- 10 20. The composition according to Claim 19 further comprising (f) at least one additive selected from the group consisting of expansion agents and gelling agents.
 - 21. The composition according to Claim 11 wherein the ratio of epoxy compound to polyol is about 1:1 to about 2:1.

22. A method of providing a self supporting article or layer comprising:

- (a) providing a first component comprising at least one epoxy compound, and a second component comprising at least one acid source, with at least one of the first component and second component including a polyol, and
- 20 (b) combining the first and second components so as to react the epoxy compound with the acid source.
 - 23. The method according to Claim 22 further comprising (c) introducing the reaction product of (b) onto a substrate.
 - 24. The method according to Claim 22 wherein both of the first and second components include a polyol.



5 26. The method of Claims 1 wherein said exposing is sufficient to increase the viscosity of the composition.

comprises phosphoric acid.

- 27. A composition for forming a self-supporting article or layer comprising:
 - (a) a first component comprising at least one epoxy compound, and
- (b) a second component comprising at least one acid source, wherein at least one of the first and second component includes a polyol,
 - 28. The composition according to Claim 27 wherein both the first and second components include a polyol.
 - 29. A composition according to Claim 26 wherein the polyol comprises a polyester polyol, the epoxy compound comprises a cycloaliphatic epoxy compound, and the acid comprises phosphoric acid.



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